

Rail Project 101 - West

May 12, 2016



20 Miles – 21 Stations





History Slide

- West Oahu Farrington Highway guideway awarded November 11, 2009
- Kamehameha Highway guideway awarded June 30, 2011
- Maintenance and Storage Facility awarded June 30, 2011
- Construction placed on hold August 2012
 - due to Kaleikini vs Wayne Yoshioka et al
- Construction resumes September 2013



Alignment Video





System & Rail Vehicle Features

- Operates 4 AM to Midnight
- Trains every 5 min. to 11 min.
- 30 mph to 55 mph
- Integrated with TheBus
- Cultural motifs & artwork
- Four car train: 190 seats, 8 wheelchair areas
- Flip up seats for more wheelchair areas
- Space for luggage, motorized wheelchairs, strollers, surf boards, bikes
- Audible & visual messages inside vehicle
- Emergency phones in vehicles & stations
- Accessible gangways to all four cars









Safety Features: Platform Screen Gates

- Level Boarding
- Automatic Platform Safety Gates 5 feet high
- Audible signal and light when doors open
- Open simultaneous with rail vehicle doors
- Truncated Domes at gate openings, safety yellow for contrast
- Computer controlled, opens only when train is parked at station

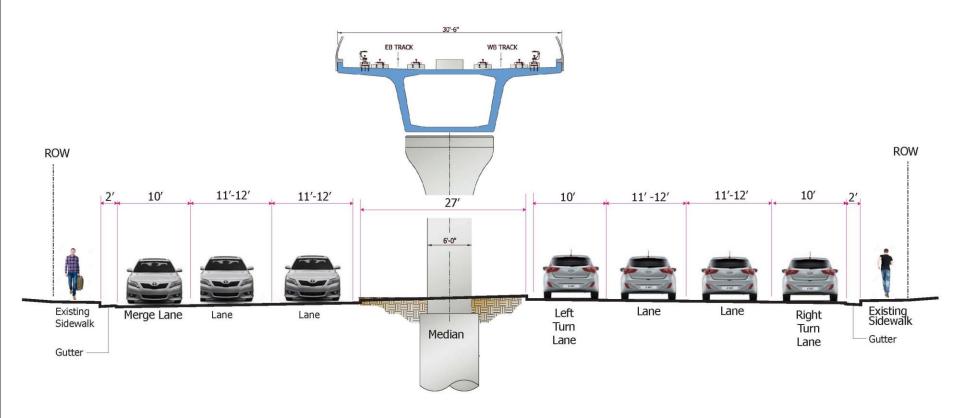




General Design Concepts

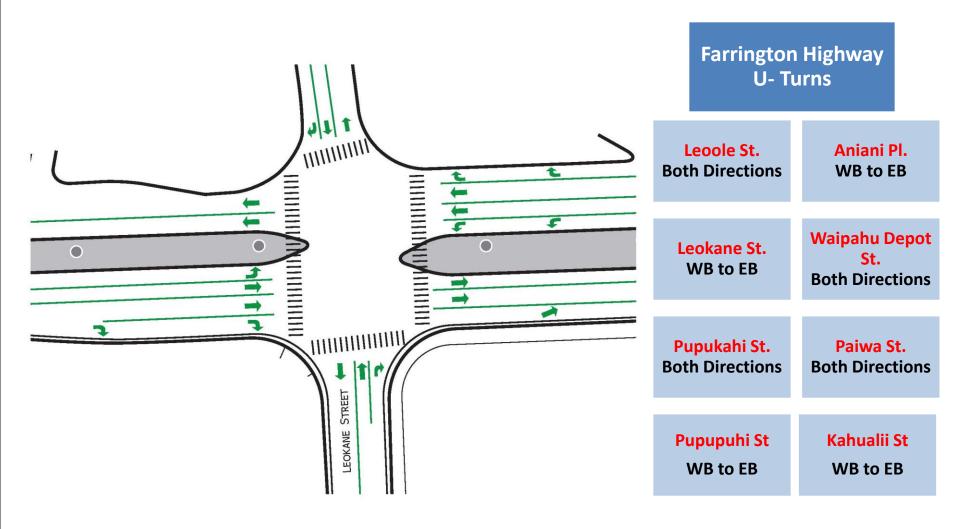


Typical Roadway Section Along Farrington Highway





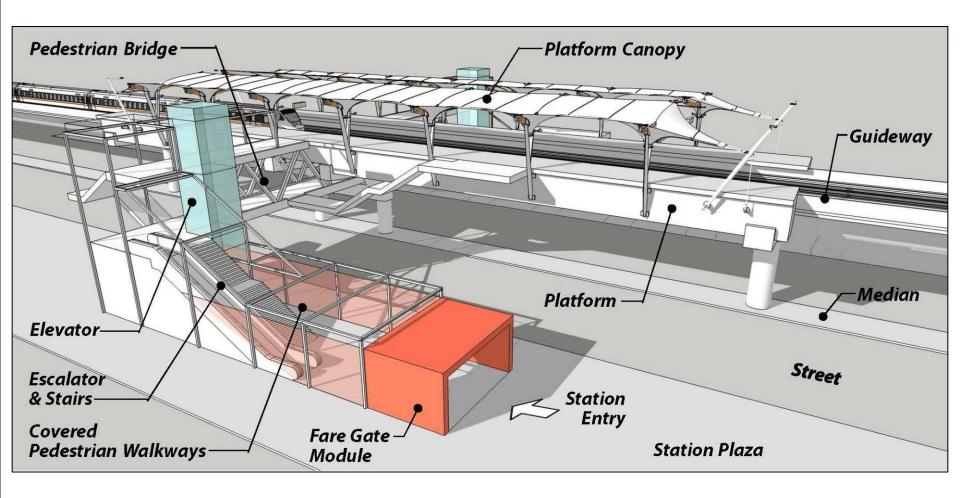
Intersection at Leokane St., Waipahu





Station Diagram

Side Platform





East Kapolei Station





University of Hawai'i West O'ahu Station



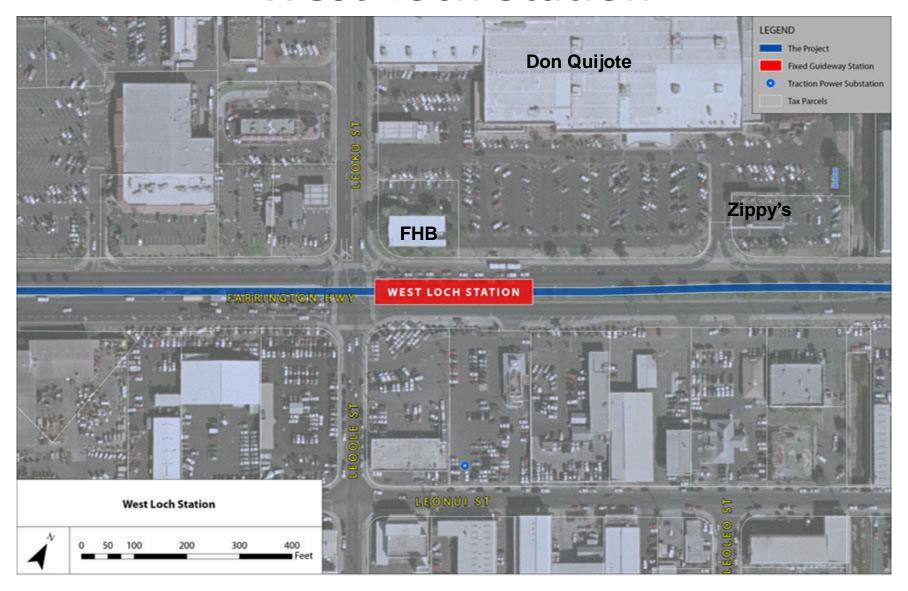


Ho'opili Station





West Loch Station





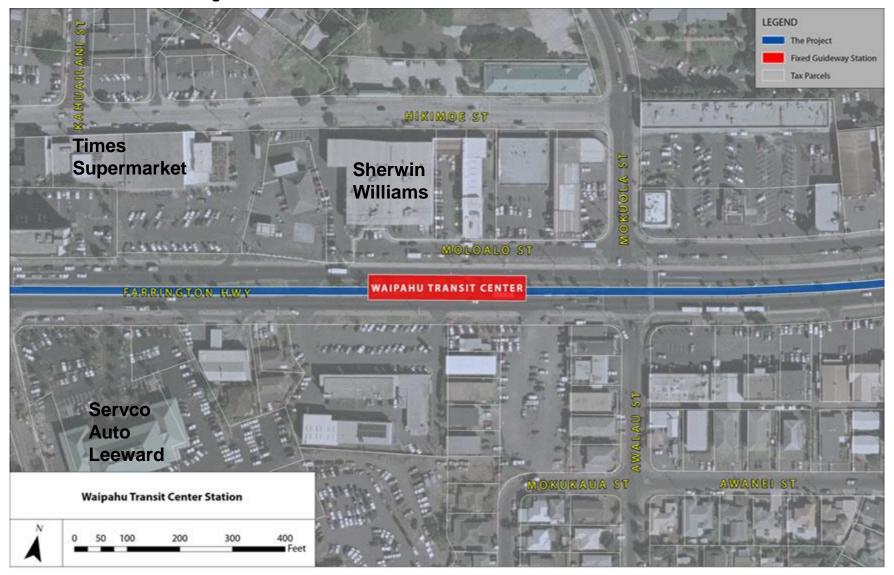
West Loch Station

Looking Makai





Waipahu Station Site Context





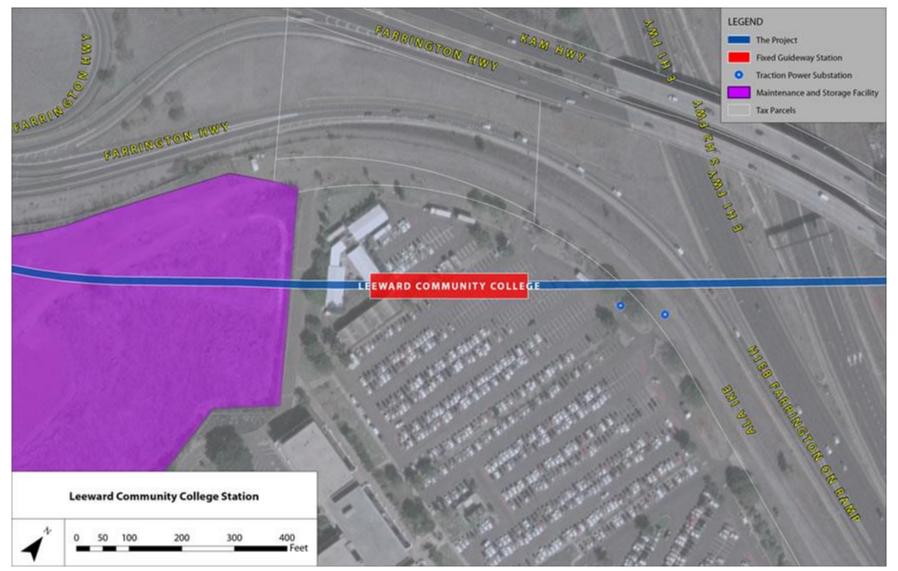
Waipahu Transit Center Station

Looking Makai





Leeward Community College Site Context



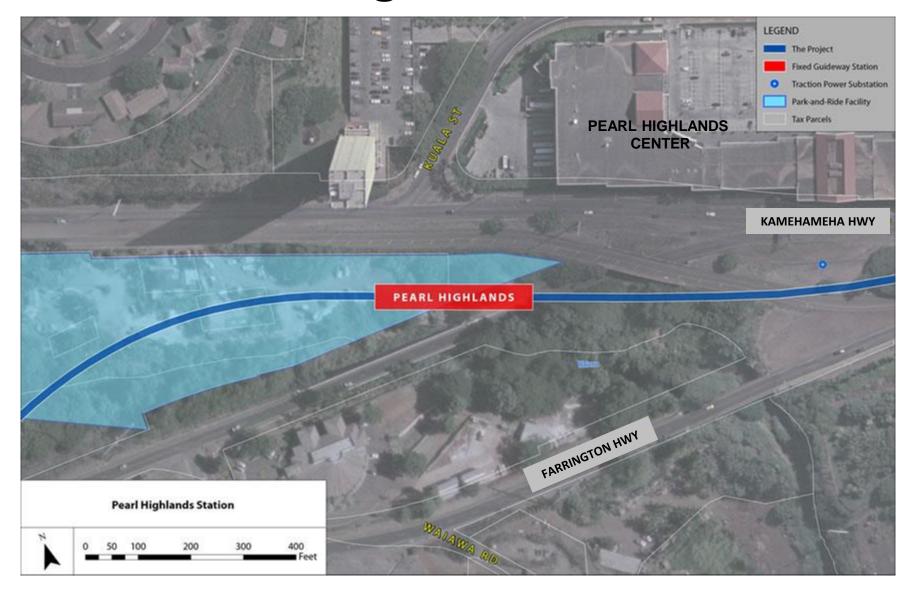


Leeward Community College Station





Pearl Highlands Station



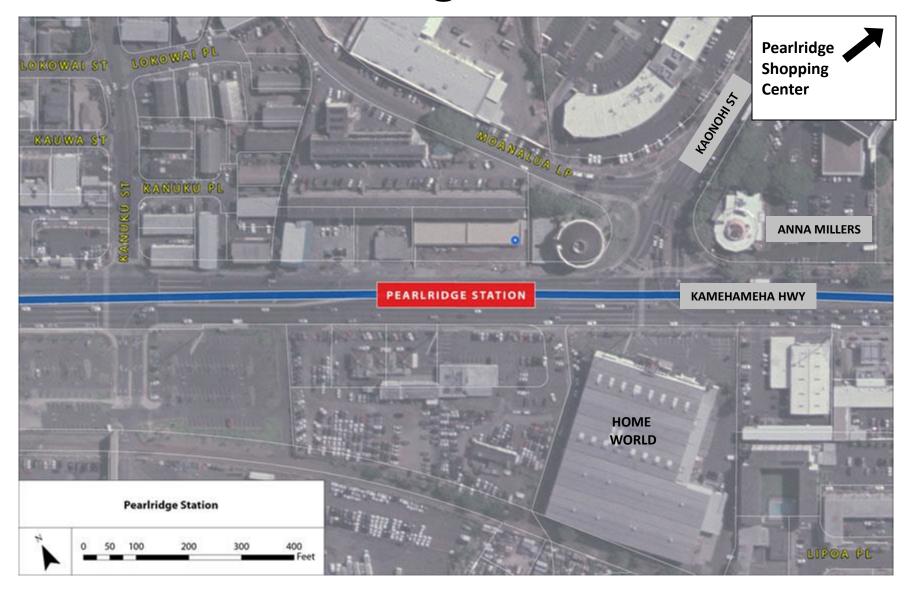


Pearl Highlands Station





Pearlridge Station





Pearlridge Station

Looking Makai





Aloha Stadium Station





Aloha Stadium Station

Looking Makai





Aesthetic Column Program

The history and stories that celebrate the past while acknowledging the present day existence that surrounds each station site...





Ho'opili Station



Station Art Program

Art Opportunity Categories

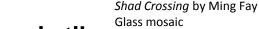
- Paving and Floor Designs
- Platform Glass Windscreens
- Wall Murals and Low reliefs
- Grille and Artistic Fencing
- Art Glass Windows
- Attached Architectural Elements



See It Split, See It Change, by Doug & Mike Starn, Fused glass panels & stainless steel fence South Ferry Station, 1 line, MTA - New York City Transit

Types of materials

- Metal
- Stone
- Glass
- Concrete
- Ceramic





Delancey Street-Essex Street, MTA, New York City Transit

Other durable materials impervious to environmental conditions



Construction Activities



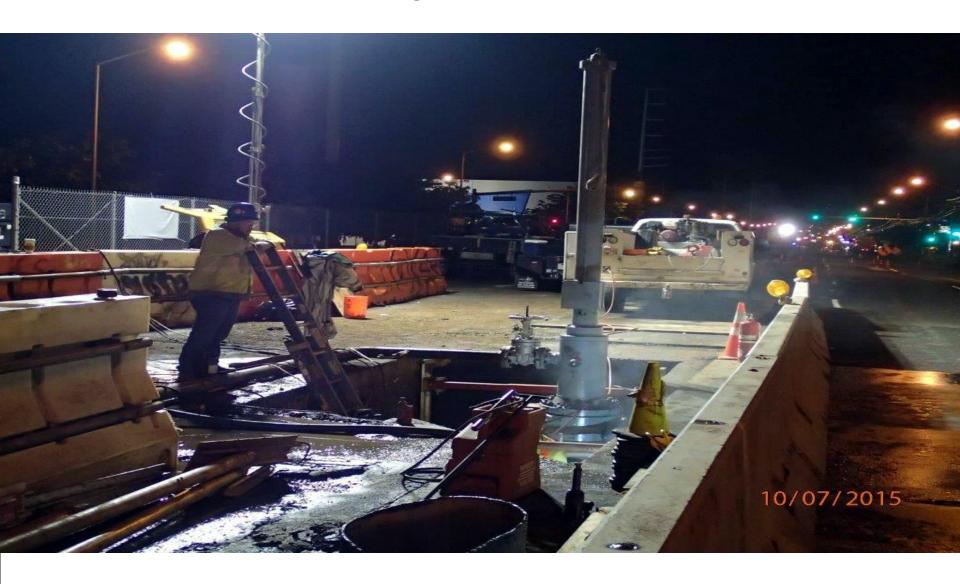
WOFH SEGMENT	
Utility Type	Linear Feet
Electrical and Communications	21,400
Water	9,300
Drainage	5,200
Sewer	600
Gas	1,600



KHG SEGMENT	
Utility Type	Linear Feet
Electrical and Communications	19,500
Water	4,400
Drainage	1,500
Sewer	500
Gas	12,600



















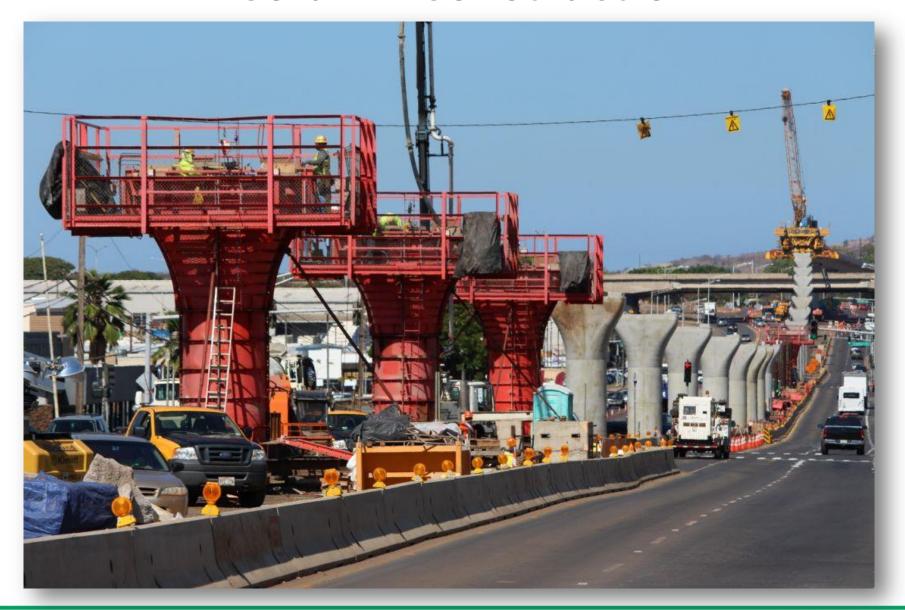


Drilled Shaft Work





Column Construction





Drilled Column Shaft Construction





Column Construction









Guideway Installation







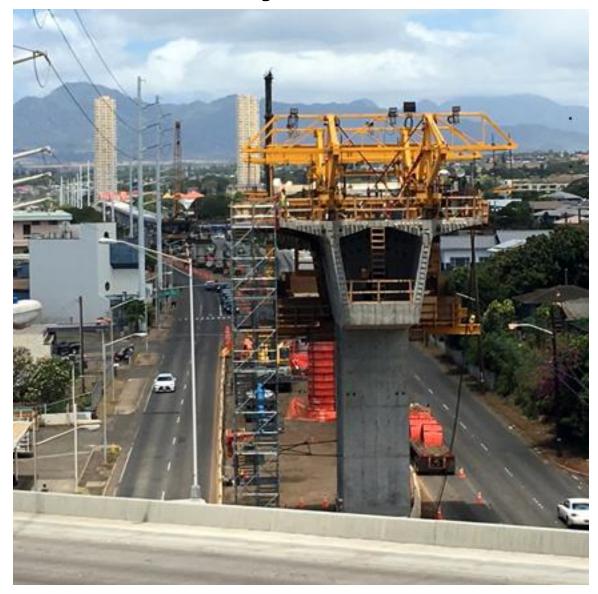


Guideway Installation





Guideway Installation





West Construction General Sequence

6 to 9 months Utility Relocations 1 to 2 months **Shaft Foundations** 1 to 2 months **Column Construction** 1 to 2 months **Guideway Installation**



Business Outreach Programs

Open for Business

- Special signage, collateral and programs
- Access to and from businesses maintained
- Timely construction information
- Coordination with businesses on deliveries, etc.
- Monthly business and community meetings





Business Outreach Programs

HART Business Alliance

- Partnership with businesses along the corridor
- Tailored briefings and meetings
- Direct emails with information on traffic, construction and outreach programs
- Business development programs, marketing and social media workshops
- Proactively meeting with businesses in the Dillingham and City Center area
- Program partners include:
 - Hawaii Small Business Development Center
 - U.S. Small Business Administration Hawaii District Office
 - Patsy T. Mink Center for Business and Leadership
 - Chamber of Commerce Hawaii





- Discount program open to all businesses within a half-mile of the route
- More than 100 businesses participating
- Discounts available at <u>www.ShopAndDineOnTheLine.com</u>, through social media and printed brochures
- Partnerships with visitor attractions, Chamber of Commerce Hawaii, local trade unions, media and others to encourage support



Mahalo!



